

# Numerical Index of Recent Monographs of Bell System Technical Papers Not Published in This Journal\*

- 3793** Matthias, B. T., Compton, V. B. and Corenzwit, E., *Some New Superconducting Compounds*, Phys. and Chem. of Solids, 19, pp. 130-133 Apr. 1961.
- 3854** Lax, M., and Menger, P., *Influence of Trapping, Diffusion and Recombination on Carrier Concentration Fluctuations*, Phys. and Chem. of Solids, 14, pp. 248-267, July 1960.
- 3879** Raisbeck, G., *An Optimum Shape for Firing the Edge of an Electrode*, Amer. Math. Mon., 68, pp. 217-225, Mar. 1961.
- 3903** McCall, D. W., Anderson, E. W. and Huggins, C. M., *Self-Diffusion in Linear Dimethylsiloxanes*, J. Chem. Phys., 34, pp. 804-808, Mar. 1961.
- 3908** Burbank, R. D. and Heidenreich, R. D., *Microtwinning in Epitaxial Nickel-Iron Films*, Philos. Mag., 5, pp. 373-382, Apr. 1960.
- 3909** Morrison, J., *Behavior of Titanium in a High Vacuum*, Proc. Sixth Natl. Symp. on Vacuum Tech. Trans., pp. 291-296.
- 3910** Pierce, J. R., *Considerations in Analysis and Behavior of Wave Phenomena in Electron Beams*, J. Nuclear Energy, Part C, 2, pp. 73-80, 135-137, Jan. 1961.
- 3911** Courtney-Pratt, J. S., *Possibility of Photographing a Satellite Near the Moon*, J. Photographic Sci., 9, pp. 36-55, Jan./Feb. 1961.
- 3912** Baldwin, J. A., Jr., *Magnetic Device for High-Speed Sending of Small Currents*, A.I.E.E. Trans., Part 1, No. 53, pp. 1-8, Mar. 1961.
- 3913** Denton, R. T., *Characteristics of a Ferromagnetic Amplifier Using Longitudinal Pumping*, J. Appl. Phys., 32, pp. 3008-3078, Mar. 1961.
- 3914** Jaccarino, V., *NMR and Conduction Electron Polarization in Rare-Earth Metals*, J. Appl. Phys., 32, pp. 1028-1068, Mar. 1961.
- 3915** Kadri, F. V., *Control in Transistor Converter Circuits by Means of R-C Networks*, A.I.E.E. Trans., Part 1, No. 53, pp. 43-48, Mar. 1961.
- 3916** Wertheim, G. K., *Mossbauer Effect: Applications to Magnetism*, J. Appl. Phys., 32, pp. 1108-1178, Mar. 1961.
- 3917** Spitzer, W. G., Wernick, J. H. and Wolfe, R., *Electrical and Optical Properties of CdSnAs<sub>2</sub>*, Solid-State Elec., 2, pp. 96-99, Mar. 1961.
- 3918** Leutritz, J., *Determination of Moisture and Density for Assays of Oil-Type Preservatives*, 1960 Proc. of Amer. Wood Preservers' Assoc., 56, pp. 20-24, 1960.
- 3919** Batterman, B. W., Chipman, D. R. and DeMarco, J. J., *Measurement of Atomic Scattering Factors of Iron, Copper, and Aluminum*, Phys. Rev., 122, pp. 68-74, Apr. 1, 1961.
- 3920** Crubbs, W. J., *Unidirectional*

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- Amplifier with Esaki Diodes*, I.R.E. Trans. on Electron Devices, *ED-8*, pp. 163-169, Mar. 1961.
- 3921** Beneš, V. E., *Extensions of Wiener's Tauberian Theorem for Positive Measures*, J. of Math. Analysis and Applications, *2*, pp. 1-20, Feb. 1961.
- 3922** Fuller, C. S., *Kinetics of Donor Reactions in Oxygen-Doped Germanium*, Phys. and Chem. of Solids, *19*, pp. 18-28, Apr. 1961.
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- 3924** Pollak, H. O., *Energy Distribution of Band-Limited Functions Whose Samples on a Half Line Vanish*, J. Math. Analysis and Applications, *2*, pp. 299-332, Apr. 1961.
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- 3927** Hagstrum, H. D., *Auger Neutralization of Ions at the Surface of a Diamond-Type Semiconductor*, Phys. Rev., *122*, pp. 83-113, Apr 1, 1961.
- 3928** Hopfield, J. J. and Thomas, D. G., *Fine Structure and Magneto-Optic Effects in the Exciton Spectrum of Cadmium Sulfide*, Phys. Rev., *122*, pp. 35-52, Apr. 1, 1961.
- 3930** Allen, F. G., *Field Emission from Si and Ge; Field Desorption and Surface Migration*, Phys. and Chem. of Solids, *19*, pp. 87-99, Apr. 1961.
- 3931** Ashkin, A., *A Low-Noise Microwave Quadrupole Amplifier*, Proc. I.R.E., *49*, pp. 1016-1020, June 1961.
- 3932** Baruch, P., *Mobility of Radiation-Induced Defects in Germanium*, J. Appl. Phys., *32*, pp. 653-659, Apr. 1961.
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- 3936** Helfand, E., *Theory of the Molecular Friction Constant*, Phys. of Fluids, *4*, pp. 681-691, June 1961.
- 3937** Alff, C. and Wertheim, G. K., *Hyperfine Structure of  $Fe^{57}$  in Yttrium-Iron Garnet from the Mossbauer Effect*, Phys. Rev., *122*, pp. 1414-1417, June 1, 1961.
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- 3939** Batterman, B. W., *Effect of Long Wavelength Harmonics on Double Crystal Diffractometer Measurements*, Rev. of Sci. Instr., *32*, pp. 393-396, Apr. 1961.
- 3940** Beneš, V. E., *Method for Studying Stability of a Class of Integro-differential Equations*, J. of Math and Phys., *40*, pp. 55-67, Apr. 1961.
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- 3942** Bozorth, R. M., Wolff, P. A., Davis, D. D., Compton, V. B. and Wernick, J. H., *Ferromagnetism in Dilute Solutions of Cobalt in Palladium*, Phys. Rev., *122*, pp. 1157-1160, May 15, 1961.
- 3943** Burgiel, J. C., Jaccarino, V. and Schawlow, A. L., *Nuclear Quadrupole Resonance in an Antiferromagnet*, Phys. Rev., *122*, pp. 429-436, Apr. 15, 1961.
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- 3952 Kisliuk, P. P., *Reflection of Slow Electrons from Tungsten Single Crystals*, Phys. Rev., 122, pp. 405-411 Apr. 15, 1961.
- 3953 Klüver, J. W., *Parametric Coupling between Transverse Waves on O- and M-Type Beams*, J. Appl. Phys., 32, pp. 1111-1114, June 1961.
- 3954 Kramer, H. P., Bogert, B.P. and Hagelbarger, D. W., *Stability of Pressure-Supported Molten Zones in Horizontal Sheets*, J. Appl. Phys., 32, p. 764, May 1961.
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- 3960 Pollak, M. and Geballe, T. H., *Low-Frequency Conductivity Due to Hopping Processes in Silicon*, Phys. Rev., 122, pp. 1742-1753, June 15, 1961.
- 3961 Schawlow, A. L., Piksis, A. H., and Sugano, S., *Strain-Induced Effects on the Degenerate Spectral Line of Chromium in MgO Crystals*, Phys. Rev., 122, pp. 1469-1476, June 1, 1961.
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- 3985** Schwartz, N., Gresh, M. and Karlik, S., *Niobium Solid Electrolytic Capacitors*, *J. Electrochem. Soc.*, **108**, pp. 750-758, Aug. 1961.
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- 3988** Ahearn, A. J., *Mass Spectrographic Analysis of Insulators*, *J. Appl. Phys.*, **32**, pp. 1195-1197, July 1961.
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- 3994** Dietz, R. E. and Selwood, P. W., *Effect of Chemisorbed Hydrogen on the Magnetization of Nickel*, *J. Chem. Phys.*, **35**, pp. 270-281, July 1961.
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- 3997** von Roosbroeck, W., *Current-Carrier Transport with Space Charge in Semiconductors*, *Phys. Rev.*, **123**, pp. 474-490, July 15, 1961.
- 3998** Kometani, T. Y., *Determination of Sodium Fluoride in Wood*, *Proc. American Wood-Preserver's Assoc.*, **57**, pp. 176-179.
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- 4001** Basseches, H., *Oxidation of Sputtered Tantalum Films*, *I.R.E. Trans. on Component Parts, CP-8*, pp. 51-56, June 1961.
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November, 1962



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